Author index

Aalkjr, C., Frische, S., Leipziger, J., Nielsen, S. & Practorius, J. Sodium coupled bicarbonate transporters in the kidney, an update, 505

Aasum, E. see Bratkovsky, S. Adams, D.J. see Morris, B.J.

Alkner, B.A. & Tesch, P.A. Efficacy of a gravity-independent resistance exercise device as a countermeasure to muscle atrophy during 29-day bed rest, 345

Andreasen, D. see Friis, U.G. Anuradha, C.V. see Nandhini, A.T.A. Arendshorst, W.J. see Salomonsson, M. Armentano, R. see Bia, D. Audoly, L.P. see Crowley, S.D.

Bader, M. see Baltatu, O. Bakker, E.N.T.P. see Buus, C.L.

Baltatu, O., Campos, L.A. & Bader, M. Genetic targeting of the brain renin-angiotensin system in transgenic rats: Impact on stress-induced renin release, 579

Bell, P.D. see Komlosi, P.

Bergström, G. & Evans, R.G. Mechanisms underlying the antihypertensive functions of the renal medulla, 475

Beveridge, D.J. see Morris, B.J.

Bia, D., Armentano, R., Craiem, D., Grignola, J., Ginés, F., Simon, A. & Levenson, J. Smooth muscle role on pulmonary arterial function during acute pulmonary hypertension in sheep, 359

Bianco, R.A. see Lavoie, J.L. Bidani, A.K. see Loutzenhiser, R.

Bie, P., Wamberg, S. & Kjolby, M. Volume natriuresis vs. pressure natriuresis, 495

Bie, P. see Rasmussen, M.S. Birkeland, C.H. see Bratkovsky, S.

Bratkovsky, S., Aasum, E., Birkeland, C.H., Riemersma, R.A., Myhre, E.S.P. & Larsen, T.S. Measurement of coronary flow reserve in isolated hearts from mice, 167

Briggs, J. see Hansen, P.B. Briggs, J. see Hashimoto, S.

Brooke-Smith, M. see Sandstrom, P.

Brown, R. see Persson, A.E.G.

Buus, C.L., Kristensen, H.B., Bakker, E.N.T.P., Eskildsen-Helmond, Y.E.G. & Mulvany, M.J. Force-independent expression of c-fos mRNA by endothelin-1 in rat intact small mesenteric arteries, 1

Campos, L.A. see Baltatu, O.

Carroll, J.F., King, J.W. & Cohen, J.S. Hydralazine treatment alters body composition in the rabbit model of obesity, 183

Ceugniet, F. see Gosselin, N.

Chen, Y., Lasaitiene, D. & Friberg, P. The renin–angiotensin system in kidney development, 529

Chen, Y.-T. see Lees, S.J. Cheng, H.-F. see Harris, R.C. Coffman, T.M. see Crowley, S.D.

Cohen, J.S. see Carroll, J.F.

Cook, A.K. see Inscho, E.W.
Cowley, A.W. Jr, Liang, M., Roman, R.J., Greene, A.S. & Jacob, H.J. Consomic rat model systems for physiological genomics, 585

Craiem, D. see Bia, D.

Crowley, S.D., Tharaux, P.-L., Audoly, L.P. & Coffman, T.M. Exploring type I angiotensin (AT₁) receptor functions through gene targeting, 561

Diener, M. see Rehn, M.

Dobrzy, A., Knapp, M. & Górski, J. Effect of acute exercise and training on metabolism of ceramide in the heart muscle of the rat, 313

Durand, F. see Gosselin, N.

Edvinsson, L. see Granström, B.

Eiken, O. & Kölegrd, R. Comparison of vascular distensibility in the upper and lower extremity, 281

Eiken, O. & Mekjavic, I.B. Ischaemia in working muscles potentiates the exercise-induced sweating response in man, 305

Ekmark, M. see Rana, Z.A.

Emanuel, K. see Mackiewicz, U.

Eskildsen-Helmond, Y.E.G. see Buus, C.L.

Evans, R.G. see Bergström, G.

Evans, R.J. see Inscho, E.W.

Fintha, A. see Komlosi, P.

Friberg, P. see Chen, Y. Friis, U.G., Jørgensen, F., Andreasen, D., Jensen, B.L. & Skøtt, O. Membrane potential and cation channels in rat

juxtaglomerular cells, 391 Frische, S. see Aalkjr, C.

Ginés, F. see Bia, D.

Górski, J. see Dobrzy, A.

Gosselin, N., Durand, F., Poulain, M., Lambert, K., Ceugniet, F., Préfaut, C. & Varray, A. Effect of acute hyperoxia during exercise on quadriceps electrical activity in active COPD patients, 333

Granström, B., Nilsson, E., Hultkvist-Bengtsson, U. & Edvinsson, L. Analysis of ET-A and ET-B receptors using an isolated perfused rat lung preparation, 259

Greene, A.S. see Cowley, A.W. Griggio, M.A. see Passadore, M.D.

Grignola, J. see Bia, D.

Gross, V., Obst, M. & Luft, F.C. Insights into angiotensin II receptor function through AT2 receptor knockout mice, 487

Gundersen, K. see Rana, Z.A.

Hansen, P.B., Yang, T., Huang, Y., Mizel, D., Briggs, J. & Schnermann, J. Plasma renin in mice with one or two renin genes, 431

Hansen, P.B. see Uhrenholt, T.R.

Harris, R.C., Zhang, M.-Z. & Cheng, H.-F. Cyclooxygenase-2 and the renal renin–angiotensin system, 543

Hashimoto, S., Huang, Y., Mizel, D., Briggs, J. & Schnermann, J. Compensation of proximal tubule malabsorption in AQP1-deficient mice without TGF-mediated reduction of GFR, 455

Helge, J.W. see Schiøtz Thorud, H.-M. Hoilund-Carlsen, P.F. see Rasmussen, M.S.

Holstein-Rathlou, N.-H. see Salomonsson, M.

Hoshino, Y. see Itai, Y. Huang, Y. see Hansen, P.B.

Huang, Y. see Hashimoto, S.

Hübschle, T. see Rehn, M. Hultkvist-Bengtsson, U. see Granström, B.

Imig, I.D. see Inscho, E.W.

Inscho, E.W., Cook, A.K., Imig, J.D., Vial, C. & Evans, R.J.

Renal autoregulation in P2X₁ knockout mice, 445 Itai, Y., Kariya, Y. & Hoshino, Y. Morphological changes in rat hindlimb muscle fibres during recovery from disuse atrophy, 217

Jacob, H.J. see Cowley, A.W.

leck, N. see Reinalter, S.C.

Jensen, B.L., Stubbe, J., Madsen, K., Nielsen, F.T. & Skott, O. The renin-angiotensin system in kidney development: role of COX-2 and adrenal steroids, 549

Jensen, B.L. see Friis, U.G. Jensen, B.L. see Uhrenholt, T.R. Jørgensen, F. see Friis, U.G.

Kariya, Y. see Itai, Y. Keen, H.L. see Lavoie, I.L. King, J.W. see Carroll, J.F. Kjolby, M. see Bie, P.

Kleinmann, F. see Patzak, A. Knapp, M. see Dobrzy, A. Kölegrd, R. see Eiken, O.

Komlosi, P., Fintha, A. & Bell, P.D. Current mechanisms of macula densa cell signalling, 463

Kristensen, H.B. see Buus, C.L. Kupsch, E. see Patzak, A. Kurtz, A. see Schweda, F.

Lai, E.Y. see Patzak, A. Lambert, K. see Gosselin, N. Larsen, T.S. see Bratkovsky, S. Lasaitiene, D. see Chen, Y

Lavoie, J.L., Bianco, R.A., Sakai, K., Keen, H.L., Ryan, M.J. & Sigmund, C.D. Transgenic mice for studies of the renin-angiotensin system in hypertension, 571

Leedman, P.J. see Morris, B.J.

Lees, S.J., Chen, Y.-T. & Williams, J.H. Glycogen debranching enzyme is associated with rat skeletal muscle sarcoplasmic reticulum, 239

Leipziger, J. see Aalkjr, C. Levenson, J. see Bia, D.

Lewartowski, B. see Mackiewicz, U.

Liang, M. see Cowley, A.W.

Liu, R. see Persson, A.E.G.

Loutzenhiser, R., Bidani, A.K. & Wang, X. Systolic pressure and the myogenic response of the renal afferent arteriole,

Luft, F.C. see Gross, V.

Lunde, P.K. see Schiotz Thorud, H.-M.

Luz, J. see Passadore, M.D.

McGinn, B.J. see McHarg, S.

McHarg, S., Morton, J.S., McGinn, B.J., Yasin, M. & Morrison, J.D. Absorption of the cholic acid-conjugated peptide hormone cholylsecretin from the rat ileum in vivo, 23

Mackiewicz, U., Emanuel, K. & Lewartowski, B. Mechanism of activation of the tonic component of contraction in myocytes of guinea pig heart, 267

Madsen, K. see Jensen, B.L. Mangs, H. see Morris, B.J. Matsakas, A. see Nikolaidis, M.G. Mekjavic, I.B. see Eiken, O.

Michna, H. see Nikolaidis, M.G.

Mizel, D. see Hansen, P.B.

Mizel, D. see Hashimoto, S.

Morris, B.J., Adams, D.J., Beveridge, D.J., van der Wevden, L., Mangs, H. & Leedman, P.J. cAMP controls human renin mRNA stability via specific RNA-binding proteins, 369

Morrison, J.D. see McHarg, S. Morton, J.S. see McHarg, S Mougios, V. see Nikolaidis, M.G.

Mrowka, R. see Patzak, A.

Mulvany, M.J. see Buus, C.L.

Mulvany, M.J. see Skov, K.

Myhre, E.S.P. see Bratkovsky, S.

Nandhini, A.T.A., Thirunavukkarasu, V. & Anuradha, C.V. Stimulation of glucose utilization and inhibition of protein glycation and AGE products by taurine, 297

Nguyen, L.-D. see Nottin, S.

Nicolaysen, A. see Schiotz Thorud, H.-M.

Nicolaysen, G. see Schiøtz Thorud, H.-M.

Nielsen, F.T. see Jensen, B.L.

Nielsen, S. see Aalkjr, C. Nikolaidis, M.G., Petridou, A., Matsakas, A., Schulz, T., Michna, H. & Mougios, V. Effect of chronic wheel run-

ning on the fatty acid composition of phospholipids and triacylglycerols in rat serum, skeletal muscle and heart, 199

Nilsson, E. see Granström, B.

Nilsson, G.E. see Schiotz Thorud, H.-M.

Noble, E.G. see O'Neill, D.E.T.

Nørregaard, R. see Uhrenholt, T.R. Nottin, S., Nguyen, L.-D., Terbah, M. & Obert, P. Long-

term endurance training does not prevent the age-related decrease in left ventricular relaxation properties, 209

Nunes, M.T. see Passadore, M.D.

Nüsing, R.M. & Seyberth, H.W. The role of cyclooxygenases and prostanoid receptorsin furosemide-like salt losing tubulopathy: the hyperprostaglandin E syndrome, 523

Obert, P. see Nottin, S. Obst, M. see Gross, V

Ollerstam, A. see Persson, A.E.G.

O'Neill, D.E.T. & Noble, E.G. Constitutive expression of inducible Hsp70 is linked to natural shifts in skeletal muscle phenotype, 35

Passadore, M.D., Griggio, M.A., Nunes, M.T. & Luz, J. Effects of ageing on the energy balance of food-restricted rats, 193

Patzak, A., Kleinmann, F., Lai, E.Y., Kupsch, E., Skelweit, A. & Mrowka, R. Nitric oxide counteracts angiotensin II induced contraction in efferent arterioles in mice, 439

Persson, A.E.G., Ollerstam, A., Liu, R. & Brown, R. Mechanisms for macula densa cell release of renin, 471

Persson, P.B., Skalweit, A. & Thiele, B.J. Controlling the release and production of renin, 375

Peters, M. see Reinalter, S.C.

Petridou, A. see Nikolaidis, M.G. Poulain, M. see Gosselin, N.

Praetorius, J. see Aalkjr, C.

Préfaut, C. see Gosselin, N.

Rana, Z.A., Ekmark, M. & Gundersen, K. Coexpression after electroporation of plasmid mixtures into muscle in vivo, 233

Rasch, R., Skriver, E. & Woods, L.L. The role of the RAS in programming of adult hypertension, 537 Rasmussen, L.E. see Uhrenholt, T.R.

Author index

Rasmussen, M.S., Simonsen, J.A., Sandgaard, N.C.F., Høilund-Carlsen, P.F. & Bie, P. Effects of oxytocin in normal man during low and high sodium diets, 247

Rehn, M., Hübschle, T. & Diener, M. TNF-α hyperpolarizes membrane potential and potentiates the response to nicotinic receptor stimulation in cultured rat myenteric neurones, 13

Reinalter, S.C., Jeck, N., Peters, M. & Seyberth, H.W. Pharmacotyping of hypokalaemic salt-losing tubular disorders, 513

Riemersma, R.A. see Bratkovsky, S. Roman, R.J. see Cowley, A.W. Ryan, M.J. see Lavoie, J.L.

Saccone, G.T.P. see Sandstrom, P. Sakai, K. see Lavoie, J.L. Salomonsson, M., Sorensen, C.M., Arendshorst, W.J., Steendahl, J. & Holstein-Rathlou, N.-H. Calcium handling in afferent arterioles, 421

Sandgaard, N.C.F. see Rasmussen, M.S.
Sandstrom, P., Woods, C.M., Brooke-Smith, M., Saccone,
G.T.P., Toouli, J. & Svanvik, J. Highly selective iNOS inhibition and sphincter of Oddi motility in the Australian possum, 321

Schiotz Thorud, H.-M., Lunde, P.K., Nicolaysen, G., Nicolaysen, A., Helge, J.W., Nilsson, G.E. & Sejersted, O.M. Muscle dysfunction during exercise of a single skeletal muscle in rats with congestive heart failure is not associated with reduced muscle blood supply, 173

Schjerning, J. see Uhrenholt, T.R. Schnermann, J. see Hansen, P.B. Schnermann, J. see Hashimoto, S. Schulz, T. see Nikolaidis, M.G.

Schweda, F. & Kurtz, A. Cellular mechanism of renin release, 383

Secher, N.H. see Volianitis, S. Sejersted, O.M. see Schiotz Thorud, H.-M.

Seyberth, H.W. see Nüsing, R.M. Seyberth, H.W. see Reinalter, S.C. Sigmund, C.D. see Lavoie, J.L.

Simon, A. see Bia, D. Simonsen, J.A. see Rasmussen, M.S. Skalweit, A. see Persson, P.B. Skelweit, A. see Patzak, A.

Skøtt, O. see Friis, U.G. Skøtt, O. see Jensen, B.L. Skøtt, O. see Uhrenholt, T.R.

Skøtt, O. Foreword, 367

Skov, K. & Mulvany, M.J. Structure of renal afferent arterioles in the pathogenesis of hypertension, 397

Skriver, E. see Rasch, R. Sorensen, C.M. see Salomonsson, M.

Steendahl, J. see Salomonsson, M.

Stubbe, J. see Jensen, B.L.

Suzuki, J. Time-course changes in VEGF expression and capillarity in the early stage of exercise training with Co²⁺ treatment in rat skeletal muscles, 225

Svanvik, J. see Sandstrom, P.

Terbah, M. see Nottin, S.
Tesch, P.A. see Alkner, B.A.
Tharaux, P.-L. see Crowley, S.D.
Thicle, B.J. see Persson, P.B.
Thirunavukkarasu, V. see Nandhini, A.T.A.
Toouli, J. see Sandstrom, P.

Uhrenholt, T.R., Schjerning, J., Rasmussen, L.E., Hansen, P.B., Norregaard, R., Jensen, B.L. & Skøtt, O. Rapid non-genomic effects of aldosterone on rodent vascular function, 415

Varray, A. see Gosselin, N. Vial, C. see Inscho, E.W. Vogelsang, T. see Volianitis, S. Volianitis, S., Yoshiga, C.C., Vogelsang, T. & Secher, N.H. Arterial blood pressure and carotid baroreflex function during arm and combined arm and leg exercise in humans, 289

Wamberg, S. see Bie, P. Wang, X. see Loutzenhiser, R. van der Weyden, L. see Morris, B.J. Williams, J.H. see Lees, S.J. Woods, C.M. see Sandstrom, P. Woods, L.L. see Rasch, R.

Yang, T. see Hansen, P.B. Yasin, M. see McHarg, S. Yoshiga, C.C. see Volianitis, S.

Zhang, M.-Z. see Harris, R.C.



Subject index

A₁ receptors, 445 absorption, 23 adenosine 1 receptors, 455 adenosine triphosphate, 445, 463 adipose tissue, 183 advanced glycation end products, 297 afferent arteriole, 439 afferent arterioles, 445 ageing, 193, 209 aldosterone, 431, 549 angiogenesis, 225 angiotensin, 475 angiotensin II, 561 angiotension-converting enzyme inhibitors, 397 arterial baroreflex, 289 arterial pressure, 281 arteries, 359 AT₁ receptor, 561 AT2 receptor knockout mouse, 487 autoregulation, 407

baroreflex, 487
Bartter syndrome, 513
bicarbonate, 505
biosensor, 463
blood flow, 173, 475
blood pressure, 183
body composition, 193
body fat, 183
body position, 281
body temperature regulation, 305
body water, 183
Bosentan, 259
BQ 788, 259
brain, 579

calcium, 267, 383 calcium antagonists, 397 calcium channels, 391 cAMP, 383, 391 capillary structure, 173 cardiomyocytes, 267 caspases, 529 ceramide, 313 c-fos, 1 cGMP, 383 cholic acid, 23 cobalt, 225 coexpression, 233 concentric and eccentric muscle actions, 345 congestive heart failure, 173 consomic, 585 contractile properties, 173 coronary flow, 167 CP1, 369 cyclic AMP, 369 cyclooxygenase, 13, 523

development, 35 diaphragm, 35, 297 diastolic function, 209 disuse muscle atrophy, 217 dynamic exercise, 333

e-c coupling, 267 E-cadherin, 529 efferent arteriole, 439 elasticity, 359 electrolyte, 523 electromyography, 345 electroporation, 233 EMG, 333 endothelial nitric oxide synthetase, 439 endothelin-1, 259 endothelium, 415 endurance training, 209, 225 energy balance, 193 energy expenditure, 193 eNOS knock out mouse, 439 enteric nervous system, 13 ET_A receptor, 259 ET_B receptor, 259 exercise, 35, 199, 239, 289, 305, 313 exocytosis of renin, 383

fatty acid profile, 199 fetal, 549 fluorescence microscopy, 463 food restriction, 193 FR 139317, 259 fructosamine, 297 fructose feeding, 297

gene expression, 369 gene knockout, 455 gene targeting, 561, 571 gene therapy, 233 genomics, 585 Gitelman syndrome, 513 glomerular haemodynamics, 439 glomerular nephropathy, 407 glucose, 297 glucose utilization, 297 glycated haemoglobin, 297 gravity, 281 growth factors, 529

HADHB, 369 heart, 199, 313 heart rate, 289 hindlimb unloading, 217 homeostasis, 495 HuR, 369 hydralazine, 183 hyperprostaglandin E syndrome, 513 hypertension, 359, 407, 475, 561, 571

ileum, 23 immunoblotting, 239 inbred SHR, 397 inducible nitric oxide synthase, 321 intracellular calcium, 471 ion channels, 421 isolated perfused arterioles, 439

juxtaglomerular apparatus, 439, 463 juxtaglomerular cells, 391

kidney, 247, 415, 505, 523 kidney medulla, 475 kinetics, 407

left ventricular performance, 487 leucocytes, 529 lipid metabolism, 199 local vascular resistance, 281

macula densa, 463 macula densa cells, 471 magnetic resonance imaging, 345 medullipin, 475 membrane potential, 421 metabolism, 173, 239 mice strains, 431 micropuncture, 455 modelling, 407 mouse heart, 167 muscle, 233 muscle fibre regeneration, 217 muscle ischaemia, 305 M-wave, 333 myenteric plexus, 13 myosin, 35 myosin II, 407

NaCl, 549 Na excretion, 455 NBC, 505 nephrogenesis, 529 neurohumoral regulation, 495 neuronal NOS, 471 NF279, 445 nicotinic receptors, 13 nitricoxide, 247, 321, 463, 475 nitroprusside, 167

obesity, 183 oxygen-sensing mechanism, 225

pH, 505 pharmacotyping, 513 phenotype, 585 post-transcriptional control, 375 post-transcriptional mechanisms, 369 potassium channels, 391 pressure diuresis, 475 prostaglandin, 523, 549 prostaglandins, 463 pulmonary, 359 P2X₁ knockout mice, 445

rabbit model of obesity, 183 rat, 173, 313, 585

rat bronchus, 259 rats, 397 receptor, 523 regulatory proteins, 375 reloading, 217 Ren-1, 431 Ren-2, 431 renal circulation, 397 renal function, 487 renal haemodynamics, 421 renal microcirculation, 445 renin, 247, 369, 375, 463, 579 renin mRNA, 431 renin release, 391 renin-angiotensin system, 561, 571 reperfusion, 167 respiratory disease, 333 RNA-binding proteins, 369

salt-losing tubular disorders, 513 second messenger, 421 secretin, 23 serum, 199 signalling, 1 single nephron glomerular filtration rate, 455 skeletal muscle, 173, 199, 333 small artery, 1 smooth muscle, 1, 359, 415, 421 sodium balance, 247 sodium excretion, 247, 495 spaceflight, 345 sphincter of Oddi motility, 321 sphingomyelin, 313 sphingomyelinase, 313 steroid, 415 strength training, 345 stress, 579 stress proteins, 35 sustained contraction, 267

taurine, 297
terminology, 513
tissue Doppler imaging, 209
TNF-α, 13
transcription, 1, 375
transfection, 233
transgenic, 579
transgenic animals, 571
transient ischaemia, 167
transport, 505
tubuloglomerular feedback, 445, 463, 471
tubulopathy, 523

vascular compliance, 281 vascular endothelial growth factor, 225 vasculogenesis, 529 vasoconstriction/dilation, 359 venous return, 281 volume receptors, 495 volume regulation, 421

wall viscosity, 359 Western blotting, 239 wheel running, 199

